

# MC251-4P/1S

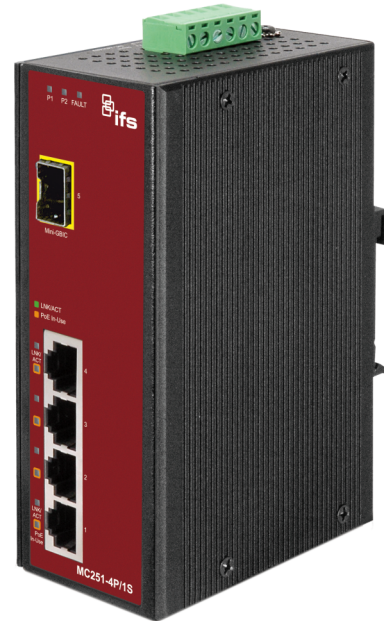
## Conversor de Media sem Gestão, 4 Portos 10/100Base-TX e 1 Porto SFP

### Overview

IFS Ethernet to SFP Industrial Media Converters offer four 10/100Mbps Ethernet ports and 100Base-FX transmission on either multi-mode or single mode optical utilizing SFP technology. Specifically designed for stable and reliable operation in electrically harsh and climatically demanding environments, the module's slim, IP-30 standard metal case accommodates DIN-rail or wall mounting for efficient installation in multiple applications.

These converters are engineered with a high-performance switch architecture capable of providing a non-blocking switch fabric and wire-speed throughput as high as 1Gbps or 1.2Gbps. With the 2K MAC address table, these media converters offer wire-speed packet transfer performance without the risk of packet loss. The Flow Control function allows these modules to deliver fast and reliable data transfer. The MC251-4P/1S model provides full IEEE802.3-af (15.4w) on each individual 4 ports, while the MC250-4T/2S model is a non-PoE unit designed for drop-and-repeat applications.

Providing extended distance Ethernet transmission, these units are well suited for remotely deployed edge devices such as IP cameras, access control, VoIP and wireless access points.



### Detalhes

- 4 RJ-45 Ports 10/100Base-TX w/PoE
- Auto MDI/MDI-X
- Auto-negotiation
- 1 SFP Port (MC251-4P/1S)
- Store-and-Forward switching architecture with wire-speed filtering and forwarding rates
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x PAUSE frame-flow control (full-duplex)
- Up to 4 IEEE 802.3af devices powered
- Complies with IEEE 802.3af Power over Ethernet End-Span PSE
- Supports up to 15.4 watts for each PoE port
- Auto detect powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 328 ft. (100m)
- Robust Hardened Design
- Provides either DIN-rail or wall-mounting
- 24 ~ 48VDC or 24VAC Operation (MC251-4P/1S)
- Redundant power with reverse-polarity protection
- Alarm relay output for power-failure alert
- Voltage/surge-suppression
- Complies with IEC60068-2-xx standards for free-fall, shock and vibration
- Wide operating temperature range of -40°C ~ +75°C

# MC251-4P/1S

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### Especificações técnicas

| Geral                                      |   |
|--|---|
| Categoria                                  | Industrial  |
| Tipo                                       | Ethernet para SFP   |
| Switch throughput (Mpps)                   | 0.744   |
| Tabela Mac                                 | 2 K   |
| Saída Falha por relé                       | Sim   |
| Conexões                                   |   |
| Nr. de portos                              | 4   |
| Velocidade do porto                        | Rápido  |
| Tipo de porto                              | 10/100  |
| Porta de fibra                             | 1   |
| Tipo de porto de fibra                     | SFP   |
| Velocidade de porto de fibra               | 100Base FX/LX/BX  |
| SFPs Suportados                            | Séries S20/S25  |
| Distância de fibra                         | Dependente de SFP   |
| Conetor de fibra                           | LC  |
| Comprimento de onda                        | Dependente de SFP   |
| Elétrica                                   |   |
| Tipo de fonte de alimentação               | 24 a 48 VDC, 24 VAC   |
| Consumo de energia                         | 77 W max.   |
| PoE  | Sim   |
| PoE / PoE+                                 | 4 ports PoE (802.3af)   |
| Físico                                     |   |
| Dimensões físicas                          | 56 x 87 x 135 mm, 2.20 x 3.46 x 5.31 in (W x D x H)   |
| Peso líquido                               | 842 g, 1.86 lbs   |
| Material do switch                         | 1 Gbps  |
| Tipo de montagem                           | Calha DIN, Montagem em parede   |
| Ambiental                                  |   |
| Temperatura de operação                    | -40 to +75°C  |
| Temperatura de armazenamento               | -40 to +85°C  |
| Humidade relativa                          | 0 to 90% noncondensing  |
| Classificação IP                           | IP30  |
| RJ45 Ports                                 |   |
| 10/100Base-TX Connectors                   | RJ-45 (4)   |
| Port Configuration                         | Auto MDI/MDI-X  |
| Port Speed                                 | Auto-negotiate  |
| Electro Static Discharge (ESD) Protection  | 6 kVDC  |
| SFP Ports                                  |   |
| Data Rate                                  | 100Base-FX/BX/LX  |
| # of SFP Ports                             | 1   |
| Optical Fiber Type                         | Varies by SFP   |
| Optical Distance                           | Varies by SFP   |
| PoE (MC251-4P/1S only)                     |   |
| PoE Standard                               | IEEE 802.3af Power over Ethernet / PSE  |
| PoE Power Supply Type                      | End-Span  |
| PoE Power Output                           | Per Port 48 VDC, 350 mA. Max. 15.4 W  |
| Power Pin Assignment                       | 1/2(+), 3/6(-)  |
| Performances des commutateurs              |   |
| Switch Architecture                        | Store-and-Forward   |
| Switch Fabric                              | 1 Gbps / non-blocking   |
| Throughput (Packet per second)             | 0.744 Mpps @ 64bytes  |
| Address Table                              | 2 K entries   |
| Shared Data Buffer                         | 1 Mbit on-chip frame buffer   |
| Maximum Frame Size                         | 1522 Bytes packet   |
| Flow Control                               | Back pressure for Half-Duplex, IEEE 802.3x PAUSE Frame for Full-Duplex  |
| LED Indicators                             |   |
| Power                                      | Power input 1 - Green; Power input 2 - Green  |
| Power Fault                                | Proper Operation - Off; Fault -Green  |
| RJ-45 (10/100Mbps)                         | 100Mbps Activity - Green; 10Mbps Activity - Off   |
| Fiber (100Base-FX)                         | Connected to network - Green  |
| Optical Link                               | Link established - Steady Green; TX/RX Activity - blinking green  |
| PoE (MC251-4P/1S only)                     | PoE in use - Amber -  |
| Electrical & Mechanical                    |   |
| Electrical Fast Transient (EFT) Protection | 6 kVDC  |
| Power and Alarm Fault Connector            | 6-pin removable screw terminal  |
| Alarm Fault Relay                          | Provides one relay output for power failure notification; 24VDC - 1A max.   |
| Enclosure                                  | IP-30 slim-type metal enclosure   |
| Environnement                              |   |
| MTBF                                       | >100,000 h @ 25°C   |
| Standards Compliance                       |   |
| IEEE Standards                             | IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX /100Base-FX; IEEE 802.3x Flow Control and Back pressure IEEE802.3-af PoE (15.4w) - MC251-4P/1S only |
| IEC Standards                              | IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)  |
| EIA/TIA-568 Standards                      | 2-Pair UTP Cat. 3, 4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.)   |
| Regulation                                 | FCC Part 15 Class A, CE   |

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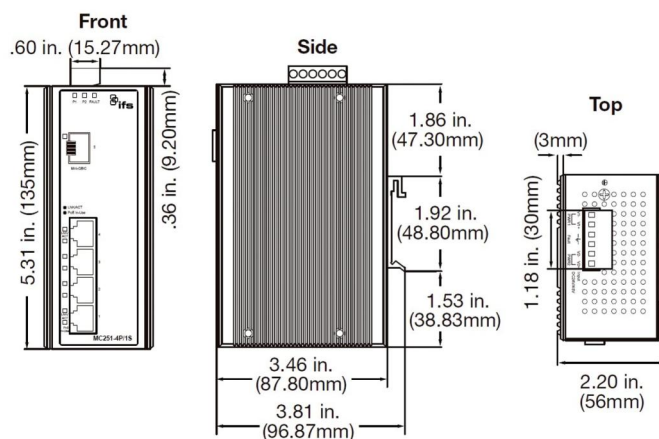
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## Accessoires

|     |                        |
|-----|------------------------|
| SFP | S20 Series             |
| SFP | S25 Series (wide-temp) |

## Produtos compatíveis

| Categoria             | Referência      | Descrição                              |
|-----------------------|-----------------|--|
| Fontes de Alimentação | PS48VDC240W-DIN | Fonte Alimentação Calha DIN 48VDC 240W |



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